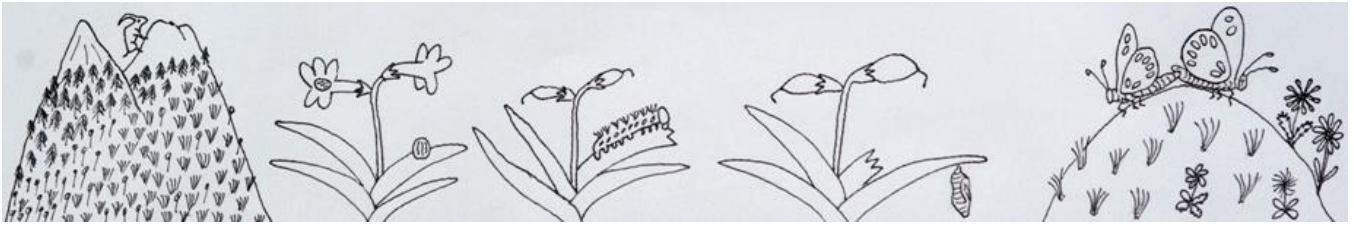


# PAPILIO (NEW SERIES) # 30

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## BUTTERFLIES OF THE SOUTHERN ROCKY MOUNTAINS AREA, AND THEIR NATURAL HISTORY AND BEHAVIOR: PHOTOS OF MOSTLY EGGS LARVAE PUPAE. PART III NYMPHALINAE (ANAEINI TO MELITAEINI)

James A. Scott

These four issues of Papilio (New Series) are photos for my book “Butterflies of the Southern Rocky Mts. Area, and their Natural History and Behavior”, showing some adults but mostly early stages (eggs, 1<sup>st</sup>-stage, mature larvae, and pupae) of as many of the species as possible, primarily from the Southern Rockies area (I added a few other interesting species that do not occur in the area). They have been cropped and downsized to illustrate just the butterflies and conserve kilobytes, rather than serve as artistic images. They are arranged by evolutionary relationship, as in the book text.

Localities of photos are Colorado especially the Denver/Front Range area, unless noted. Most were taken by J. Scott, some by others.

Abbreviations: M=male, F=female, A=adult (difficult to determine sex), E=egg, L=larva (L1=1<sup>st</sup>-stage, L2=2<sup>nd</sup>-stage, L3=3<sup>rd</sup>-stage, L4=4<sup>th</sup>-stage, L5=5<sup>th</sup>-stage usually mature, L6=6<sup>th</sup> stage mature), P=pupa

### Nymphalidae, Charaxinae, Anaeini



*Anaea andria* L4 Neb.

### Nymphalidae, Nymphalinae, Limenitidini



*Limenitis archippus archippus* Neb.: L5, P

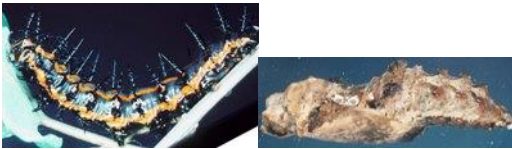


*Limenitis arthemis astyanax* L5 Tennessee



*Limenitis weidemeyerii* E, L1, L5, P

### Nymphalidae, Nymphalinae, Heliconiini



*Dione (Agraulis) vanillae incarnata* Fla. L5, P



*Euptoieta claudia* FM, M, E, L1, L5, P



*Argynnis idalia* E Neb. L6, P



*Argynnis nokomis nokomis* F Taos Co., M Costilla Co.; Chuska Mts. NM: 2L6 & P



*Argynnis cybele cybele* NW Neb. L6



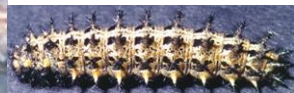
*Argynnis aphrodite whitehousei* FM, L1, L6, P



*Argynnis aphrodite byblis* SW Colo. L6



*Argynnis mormonia eurynome* MF, E, L1, L6, P in nest



*Argynnis edwardsii* M, E new, E, L1, L6 NW Neb.





*Argynnis callippe meadii* MF



*Argynnis atlantis sorocko* L6 San Juan Mts., L6, P, L6 ssp. *atlantis* New England



*Argynnis hesperis hesperis* FM gynandromorph, E, L1, L6, P



*Argynnis egleis secreta* L6



*Argynnis zerene platina* Bighorn Mts. Wyo. MF, A. z. *sinope* L6, A. z. *picta* L6 Baker Co. Ore.



*Argynnis coronis halcyone* FM, A. c. near *snyderi* L6 Banner Co. Neb.



*Boloria eunomia caelestis* FM, 2E, L1, 2L3



*Boloria selene tollandensis* ~L3, P



*Boloria selene sabulocollis* 2L5, P



*Boloria bellona* near-bellona E, L1, L5, 2P



*Boloria frigga sagata* M, L5



*Boloria improba acrocneuma* F, L5, P



*Boloria improba harryi* Wind River Mts. Wyo. L3, P shell



*Boloria freija browni* F



*Boloria titania helena* MF, L3

### Nymphalidae, Nymphalinae, Apaturini



*Asterocampa celtis celtis* L5 Neb., P Delaware



*Asterocampa celtis jeffermont* M, E, L1, L5, P

### Nymphalidae, Nymphalinae, Nymphalini



*Vanessa atalanta rubria* E, L1, L5, L5 Minn., L5, 5L5





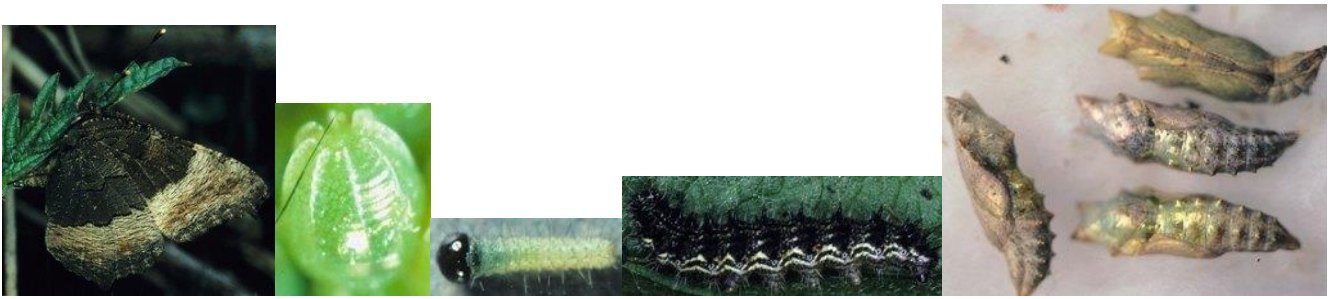
*Vanessa cardui cardui* A, A & ambush bug, E, L1, L5, L5, L5, L5, P



*Vanessa carye annabella* A



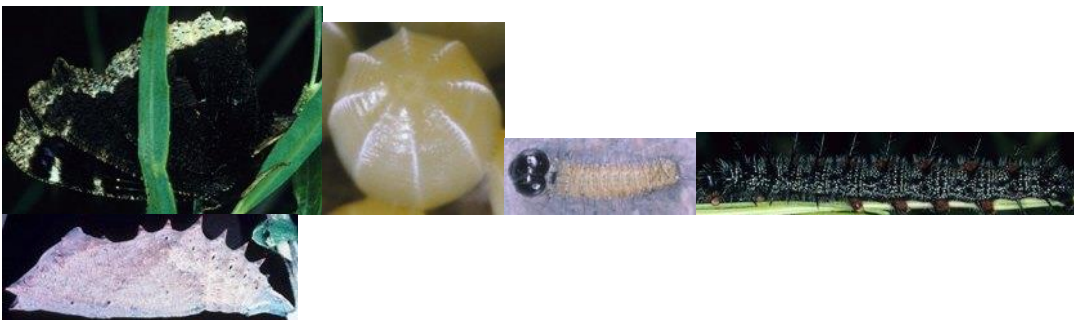
*Vanessa virginiensis* A, E, L5 NJ, L5 NJ, P Delaware, P Delaware



*Aglais milberti* F ovipositing, E, L1, L5, 4P



*Nymphalis californica timidar* A, F ovipositing, E, E clusters, L1, L5, L5, 3P, P

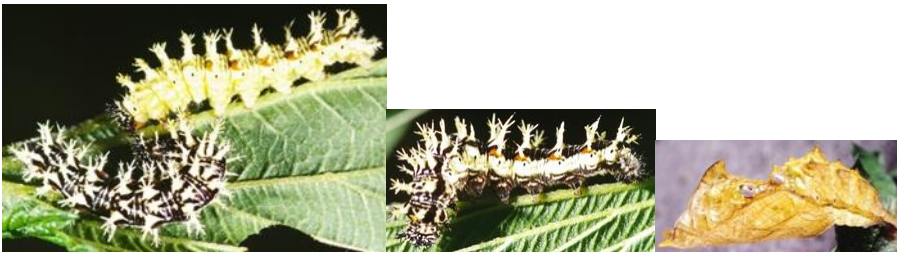


*Nymphalis antiopa* F ovipositing, E, L1, L5, P





*Polygonia interrogationis* A Pennsylvania, A, L5 Minnesota, L5 Minn., P Minn.



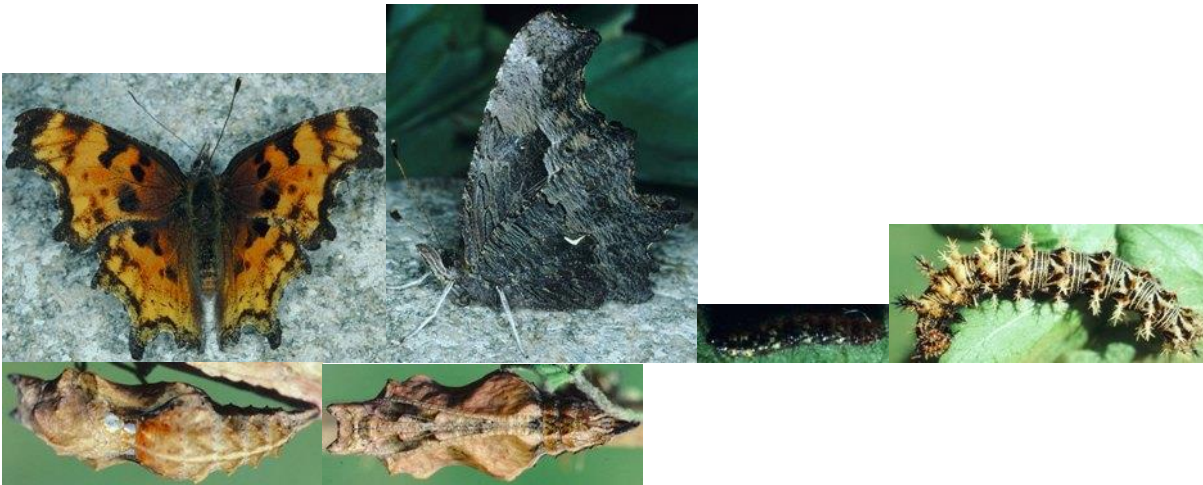
*Polygonia comma* E Neb. L5 dark & light, L5 darkish, P



*Polygonia satyrus satyrus* M, 2E, L1, L5, P



*Polygonia oreas oreas* Sonoma Co. Calif. L5, P



*Polygonia oreas satellow* A Eagle Co., A Eagle Co.; Delta Co.: L1, L5, P, P



*Polygonia gracilis zephyrus* A, A & ambush bug, L1, L5, L5, P, P



*Polygonia faunus hylas* F, E, L1, L5

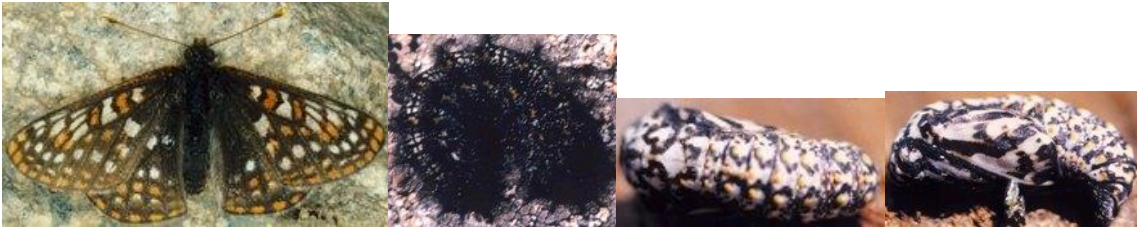
### Nymphalidae, Nymphalinae, Junoniini



*Junonia coenia* E, L1, L5, P, P, P, P Neb.



**Nymphalidae, Nymphalinae, Melitaeini**



*Euphydryas anicia brucei* F, San Juan Mts.: L5, P, P



*Euphydryas anicia wecoeut* Montezuma Co. L5; Utah: L5, L5



*Euphydryas anicia capella* MF, F ovipositing, 2E, L1, L5, P, P



*Euphydryas anicia eurytion* L5 palest, L5, L5 S Wyo. (sympatric with *rorina*), P, P, P



*Euphydryas anicia (bernadetta) rorina* M Grand Co.; southern Wyo: L5, P





*Euphydryas editha hutchinsi* M



*Euphydryas gillettii* L5, P



*Poladryas minuta arachne* M, E, L1, L5, P, P



*Poladryas minuta minuta* W of Dallas, Texas L5, 5P



*Chlosyne theona thekla* Cochise Co. Ariz. P, L5, P, L5



*Chlosyne leanira fulvia* Pueblo Co. Colo. L5



*Chlosyne leanira alma=flavodorsalis* Montrose Co. Colo. L5, 2P



*Chlosyne leanira leanira* Yolo Co. Calif. L5, 6P



*Chlosyne nycteis drusus* FM, E, L1, L5, 2P, P



*Chlosyne gorgone* MF, E, L1, L5 form rufa, L5 form nigra, L5 form bicolor, P



*Chlosyne lacinia adjutrix* form bicolor Tex. L5



*Chlosyne whitneyi damoetas* M, L5, P newer



*Chlosyne sterope acastus* Bighorn Mts, Wyo. L5, P



*Chlosyne sterope arkanyon* E, L5, P, P



*Chlosyne palla calydon* M, L5, P, P



*Phyciodes mylitta arizonensis* Taos Co. New Mex. E, L1, L5, 4P





*Phyciodes pallida pallida* M, M, L1, L5, L5, P, P



*Phyciodes pallida barnesi* Mesa Co. Colo. L5, L5, 4P



*Phyciodes orseis orseis* Siskiyou Co. Calif. E, L1, L5, 2P



*Phyciodes tharos orantain* F, E, L1, L5, P, P



*Phyciodes tharos riocolorado* Montrose Co. L1, L5, L5, P, P



*Phyciodes tharos tharos* Freeborn Co. Minn. M, L5, P, P



*Phyciodes diminutor* Freeborn Co. Minn. M, F, L5, 3P



*Phyciodes cocyta selenis* M, F, L1 older, L5, 3P



*Phyciodes batesii batesii=maconensis* Macon Co. North Carolina E, L5, 2P

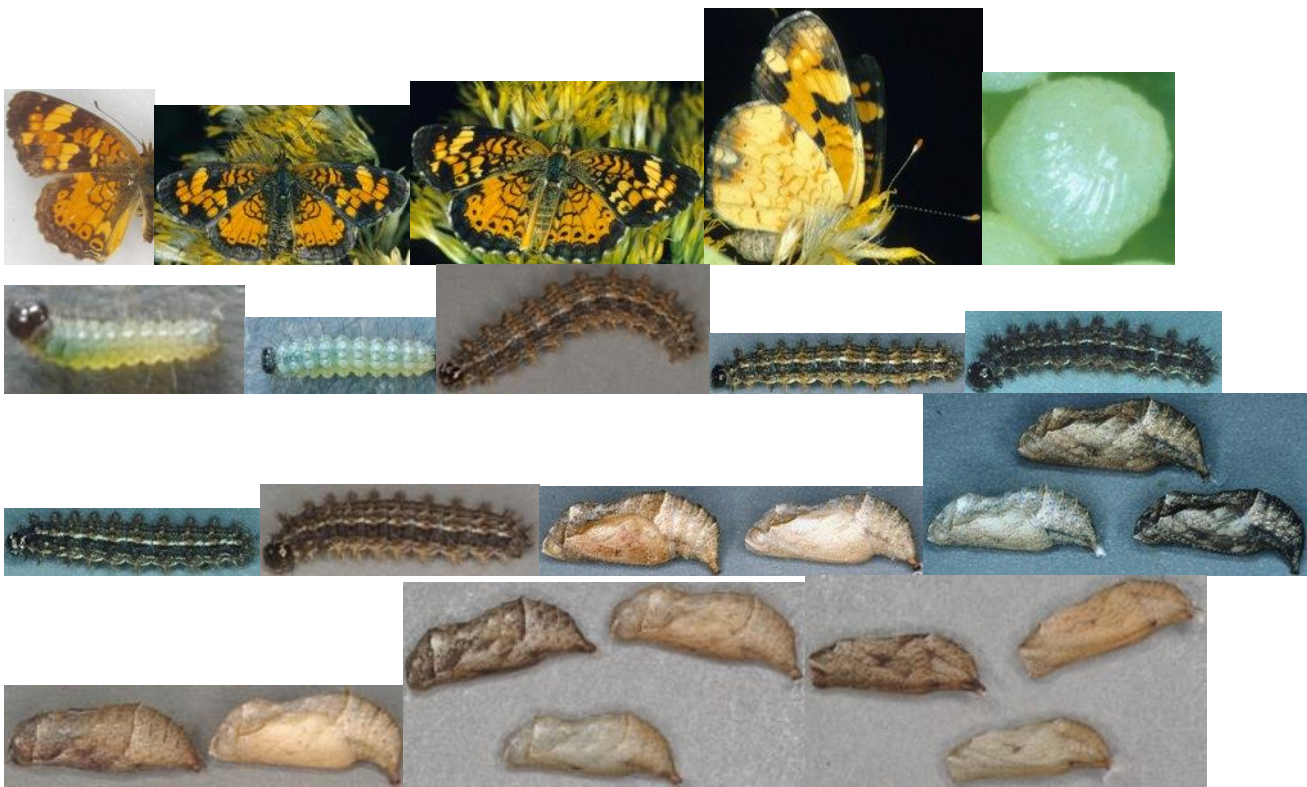


*Phyciodes batesii lakota* Neb. M, F, F, E, L1, many L1 on silk web, L5, L5, P, P





*Phyciodes batesii apsaalooke* Bighorn Mts. Wyo. M, F, M, F, E, L1, L5, L5, 2P, 2P, P, P



*Phyciodes batesii anasazi* mostly Mesa, Eagle Cos. Colo. M, M, F, M, E, L1, L1 near molting, L5, L5, L5, L5, L5, 2P, 3P, 2P, 3P, 3P



*Phyciodes pulchella camillus* MF, M, F ovipositing, E, L1, L5, 2P





*Phyciodes picta picta* Morgan Co. Colo., MF, E, L1, L5, 5P